

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1589980

Luminaire Tested: 24CZSP-SB-70VHE-L850-S

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1589980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24CZSP-SB-70VHE-L850-S
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 7500 lumens, 80CRI, Smooth Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

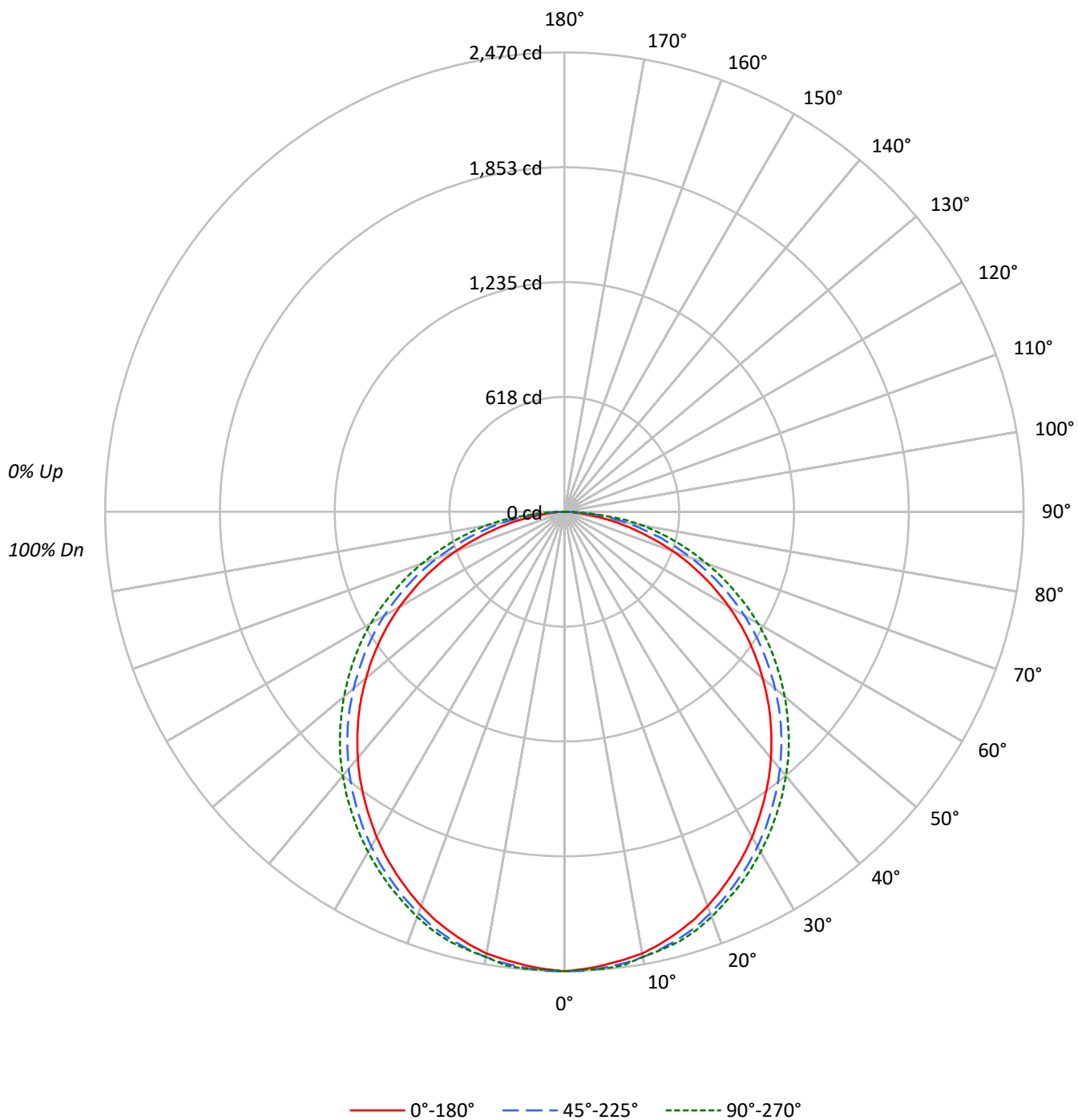
Lumens per Lamp: N/A
Luminaire Lumens: 7186.0 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 53.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40		51	45	39		50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	45	37	31	44	37	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3784	3784	3784
5°	3762	3784	3791
10°	3751	3782	3779
15°	3716	3770	3792
20°	3676	3744	3777
25°	3623	3707	3754
30°	3571	3674	3735
35°	3512	3639	3717
40°	3456	3607	3706
45°	3392	3569	3697
50°	3319	3525	3687
55°	3236	3480	3682
60°	3135	3428	3684
65°	2992	3356	3664
70°	2797	3254	3655
75°	2479	3129	3668
80°	2018	2972	3777
85°	1304	2743	3260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3828 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.8	3.3
10°-20°	669.4	9.3
20°-30°	1009.3	14.0
30°-40°	1214.5	16.9
40°-50°	1266.8	17.6
50°-60°	1161.2	16.2
60°-70°	911.8	12.7
70°-80°	555.0	7.7
80°-90°	164.2	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1912.6	26.6
0°-40°	3127.1	43.5
0°-60°	5555.1	77.3
0°-90°	7186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2470	2470	2470	2470	2470	
5°	2447	2463	2461	2458	2466	232
15°	2344	2367	2378	2381	2392	661
25°	2144	2174	2194	2208	2221	988
35°	1878	1908	1946	1974	1988	1175
45°	1566	1598	1648	1686	1707	1208
55°	1212	1243	1303	1356	1379	1083
65°	826	856	926	988	1011	817
75°	419	458	529	592	620	444
85°	74	105	156	175	186	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2470.3	2470.3	2470.3	2470.3	2470.3
2.5°	2461.0	2473.4	2470.3	2459.5	2464.1
5°	2447.1	2462.6	2461.0	2457.9	2465.7
7.5°	2430.1	2447.1	2448.7	2448.7	2457.9
10°	2411.6	2428.6	2431.7	2427.0	2430.1
12.5°	2380.6	2400.7	2406.9	2406.9	2411.6
15°	2343.5	2366.7	2377.5	2380.6	2391.5
17.5°	2303.3	2328.1	2342.0	2349.7	2359.0
20°	2255.4	2281.7	2297.2	2306.4	2317.3
22.5°	2201.3	2230.7	2247.7	2257.0	2269.3
25°	2144.1	2173.5	2193.6	2207.5	2221.4
27.5°	2083.8	2111.7	2139.5	2156.5	2168.9
30°	2018.9	2048.3	2077.6	2099.3	2111.7
32.5°	1949.3	1980.3	2014.3	2037.5	2051.4
35°	1878.2	1907.6	1946.2	1974.1	1988.0
37.5°	1805.6	1836.5	1876.7	1906.1	1923.1
40°	1728.3	1760.7	1804.0	1836.5	1853.5
42.5°	1647.9	1678.8	1726.7	1763.8	1783.9
45°	1566.0	1598.4	1647.9	1686.5	1706.6
47.5°	1480.9	1511.9	1566.0	1610.8	1627.8
50°	1392.8	1422.2	1479.4	1527.3	1547.4
52.5°	1303.2	1334.1	1391.3	1442.3	1463.9
55°	1212.0	1242.9	1303.2	1355.7	1378.9
57.5°	1119.2	1150.1	1212.0	1266.1	1293.9
60°	1023.4	1054.3	1119.2	1174.9	1202.7
62.5°	924.4	956.9	1023.4	1080.6	1109.9
65°	825.5	856.4	926.0	987.8	1011.0
67.5°	726.6	757.5	825.5	887.3	915.2
70°	624.5	660.1	726.6	791.5	816.2
72.5°	517.9	558.1	624.5	692.5	717.3
75°	418.9	457.6	528.7	592.1	619.9
77.5°	321.5	363.3	429.8	494.7	522.5
80°	228.8	269.0	337.0	398.8	428.2
82.5°	145.3	180.9	248.9	304.5	326.2
85°	74.2	105.1	156.1	174.7	185.5
87.5°	21.6	37.1	55.7	69.6	77.3
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.1	17.8	16.5	18.1	18.4	16.9	18.5	17.2	18.8	19.1
	3H	17.9	19.4	18.3	19.7	20.1	18.9	20.4	19.3	20.8	21.1
	4H	18.5	19.9	18.9	20.3	20.7	19.8	21.2	20.2	21.6	21.9
	6H	18.9	20.2	19.3	20.6	21.0	20.5	21.9	21.0	22.2	22.6
	8H	19.0	20.3	19.4	20.7	21.1	20.8	22.1	21.3	22.5	22.9
	12H	19.1	20.3	19.5	20.7	21.1	21.0	22.2	21.5	22.6	23.1
4H	2H	16.9	18.3	17.3	18.7	19.0	17.5	18.9	17.9	19.2	19.6
	3H	18.9	20.1	19.3	20.5	20.9	19.8	21.0	20.2	21.4	21.8
	4H	19.6	20.7	20.1	21.1	21.6	20.8	21.9	21.2	22.3	22.7
	6H	20.2	21.1	20.6	21.5	22.0	21.7	22.6	22.2	23.1	23.5
	8H	20.3	21.2	20.8	21.6	22.1	22.1	23.0	22.5	23.4	23.9
	12H	20.4	21.2	20.9	21.7	22.1	22.3	23.1	22.8	23.6	24.1
8H	4H	20.1	21.0	20.5	21.4	21.9	21.1	22.0	21.6	22.4	22.9
	6H	20.7	21.5	21.2	22.0	22.4	22.1	22.9	22.6	23.4	23.9
	8H	20.9	21.6	21.5	22.1	22.6	22.6	23.3	23.1	23.8	24.3
	12H	21.1	21.7	21.6	22.2	22.7	23.0	23.6	23.5	24.1	24.6
12H	4H	20.2	21.0	20.6	21.4	21.9	21.1	21.9	21.6	22.4	22.9
	6H	20.9	21.5	21.4	22.0	22.5	22.2	22.9	22.7	23.3	23.9
	8H	21.1	21.7	21.6	22.2	22.8	22.7	23.3	23.2	23.8	24.4

(END OF REPORT)